

Title (en)
Wire electric discharge machine

Title (de)
Drahtfunkenerosionsmaschine

Title (fr)
Machine d'usinage par électroérosion par fil

Publication
EP 1428602 A2 20040616 (EN)

Application
EP 03256638 A 20031022

Priority
JP 2002310024 A 20021024

Abstract (en)

A wire electric discharge machine capable of preventing a straightness error from being caused by consumption of a wire electrode, to thereby eliminate insufficient machining. A correction angle phi is predetermined for preventing the straightness error of the workpiece due to consumption thereof. Correction amounts d1', d2' on a program plane and an upper surface of a workpiece, respectively, are determined based on the predetermined correction angle phi , and are added to or subtracted from a predetermined offset amount depending on a wire electrode radius and an electric discharging gap, to thereby determine corrected offset amounts d1, d2 on the program plane and the upper surface of the workpiece, respectively. Correction amounts dlo, dup for lower and upper wire guides in an offset direction are obtained based on the corrected offset amounts d1, d2, respectively, so that motion paths of upper and lower wire guides relative to the workpiece are determined. <IMAGE>

IPC 1-7

B23H 7/06

IPC 8 full level

B23H 7/02 (2006.01); **B23H 1/04** (2006.01); **B23H 7/06** (2006.01); **B23H 7/18** (2006.01)

CPC (source: EP US)

B23H 7/065 (2013.01 - EP US); **B23H 2500/20** (2013.01 - EP US)

Citation (third parties)

Third party :

- DE 9218090 U1 19931021 - AGIE AG IND ELEKTRONIK [CH]
- JP H0260453 B2 19901217
- JP H0260453 K2

Designated contracting state (EPC)

CH LI

DOCDB simple family (publication)

US 2004084419 A1 20040506; US 6998561 B2 20060214; CN 1289247 C 20061213; CN 1496773 A 20040519; EP 1428602 A2 20040616;
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